

FIG. 1A PRIOR ART

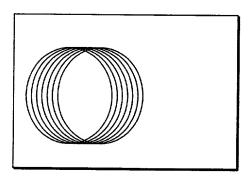


FIG. 1B PRIOR ART

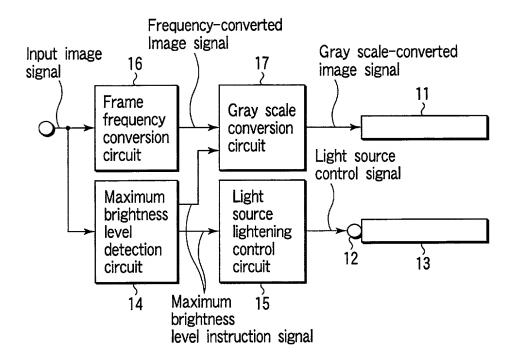
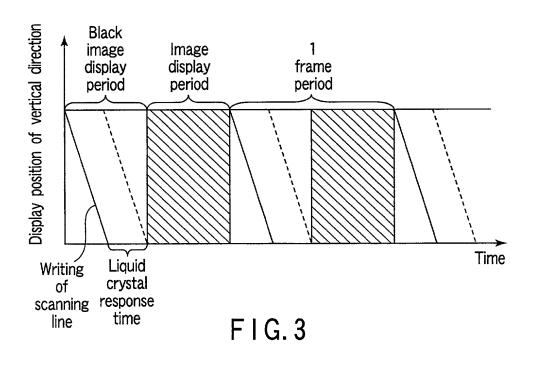


FIG.2



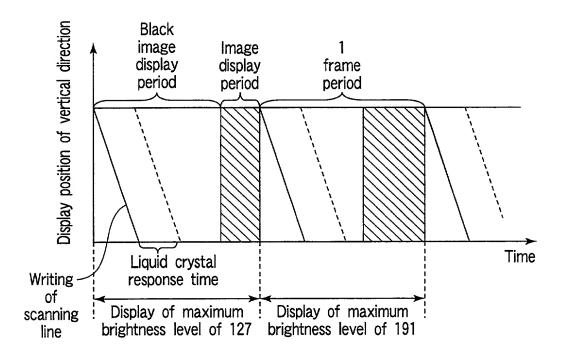


FIG.4

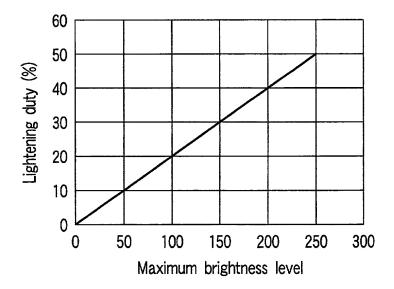


FIG.5

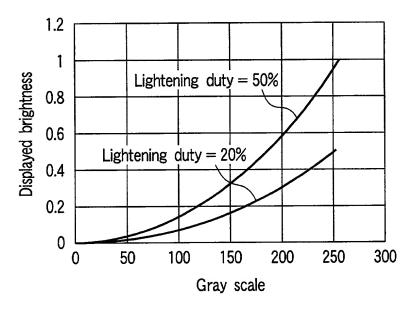
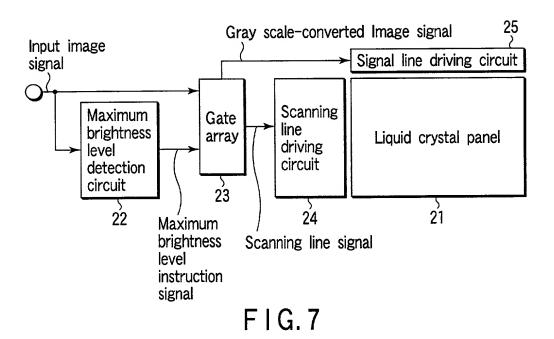


FIG.6



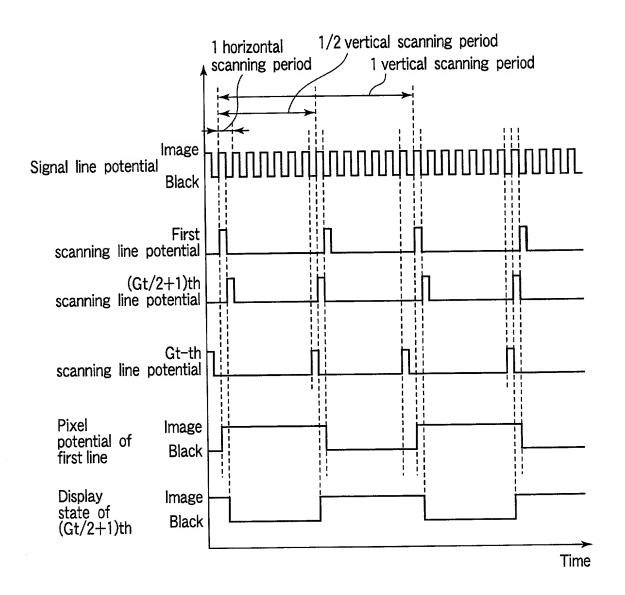
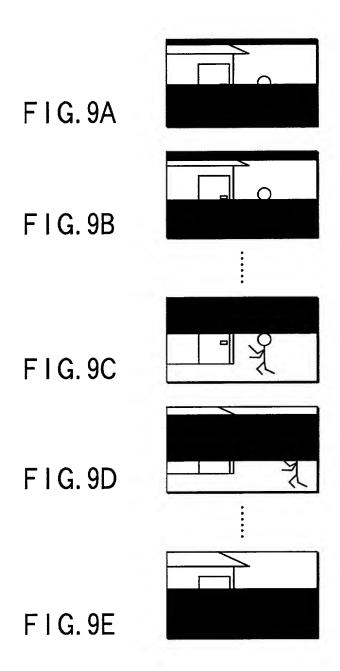


FIG.8



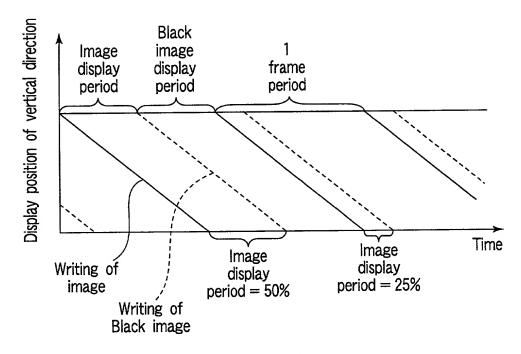


FIG. 10

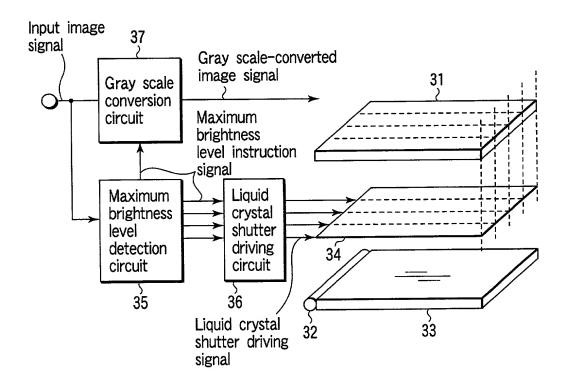


FIG. 30

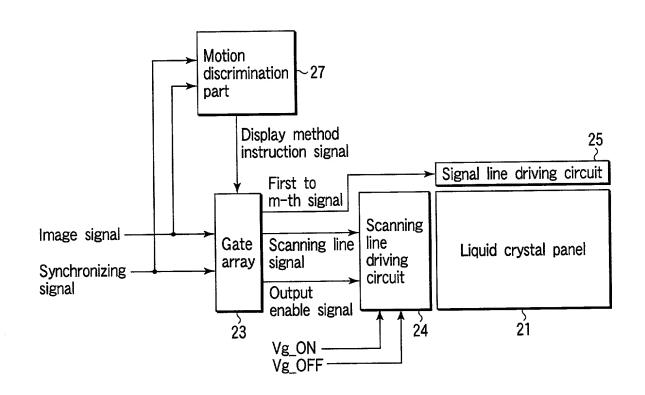
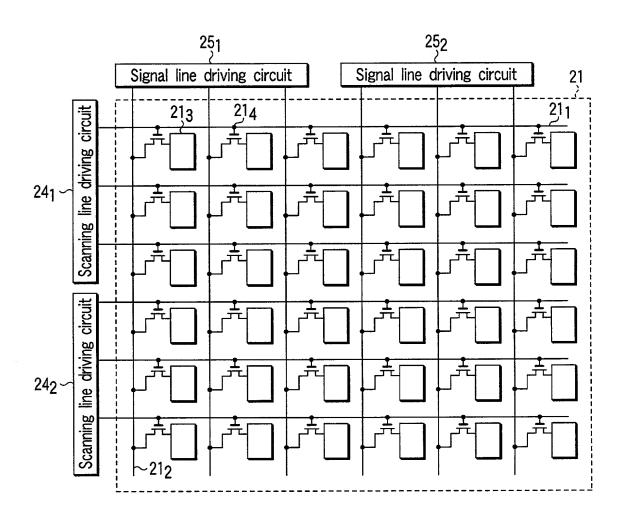
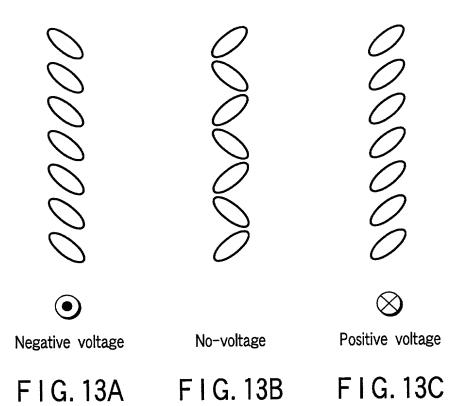


FIG. 11



F I G. 12



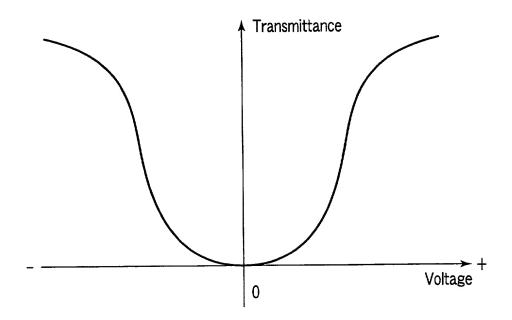


FIG. 14

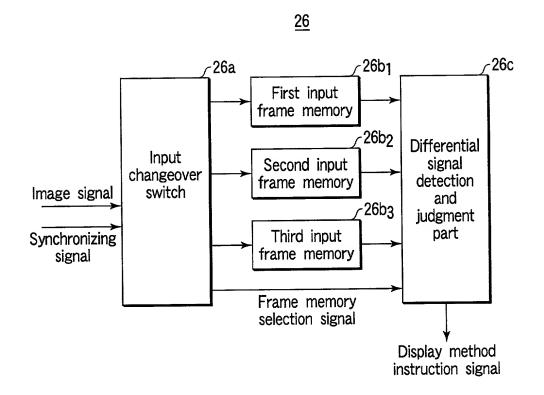
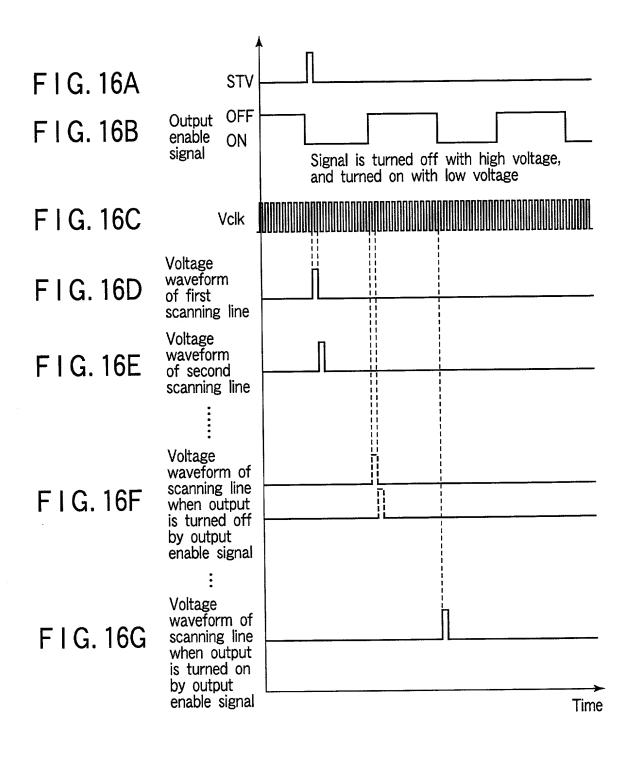
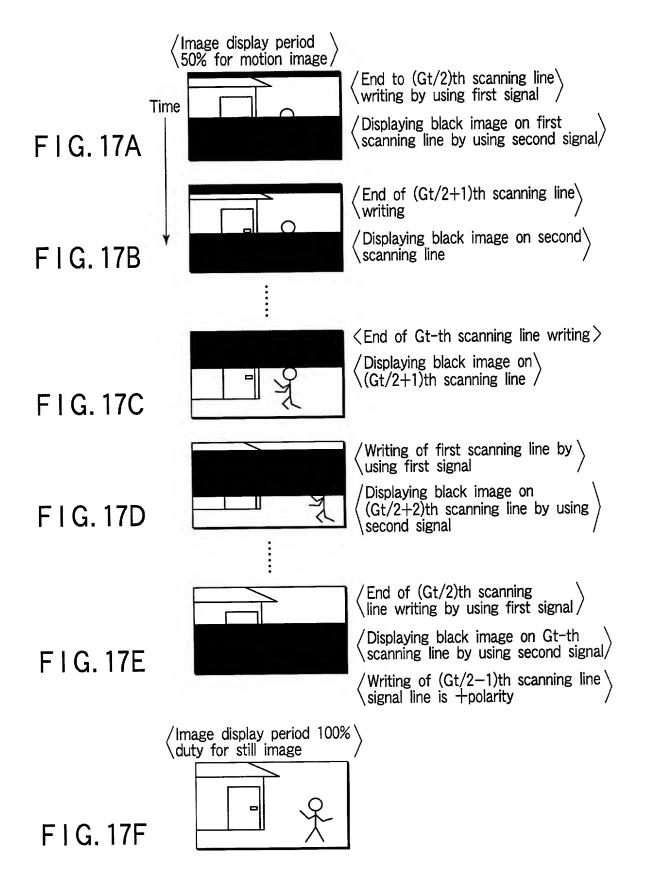
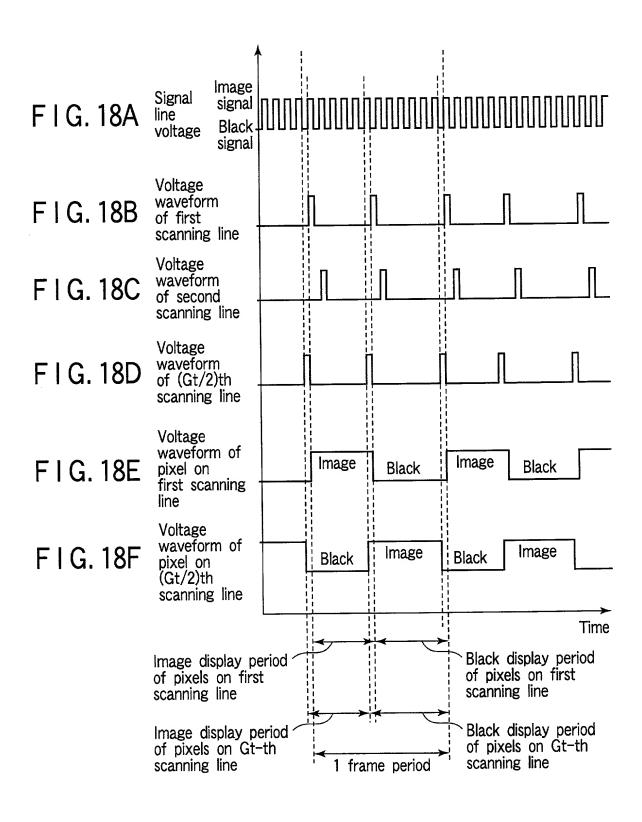


FIG. 15







## Relation between number of scanning lines, adjustment accuracy, and minimum duty

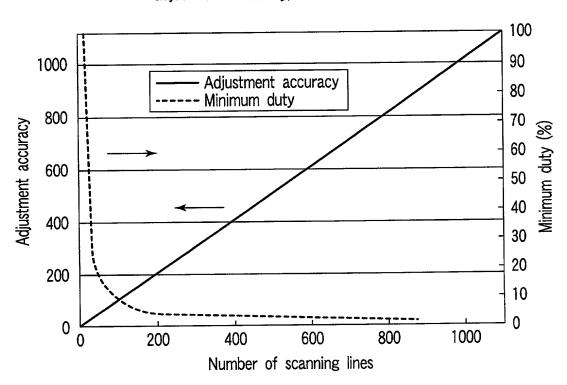
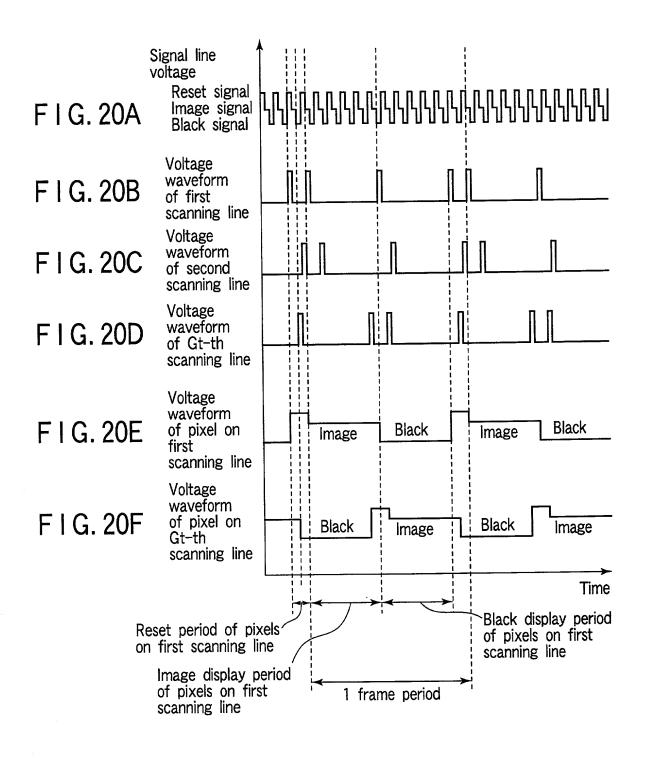
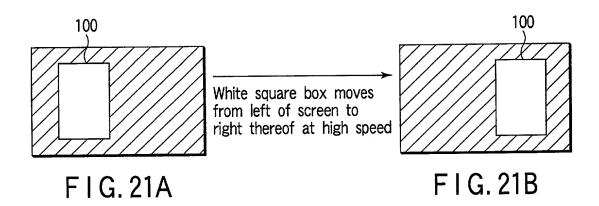


FIG. 19





Line sequential processing when creating screen and plane sequential processing when displaying image

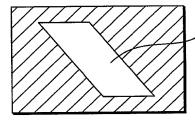


FIG. 21C

100

Creation time is different at an upper and lower side of screen.

The image is created when moving body exists in left side at upper side of screen, and the image is created when moving object is moved to right while going under the screen

plane sequential processing when creating screen and line sequential processing when displaying image

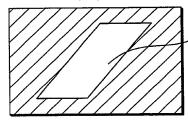
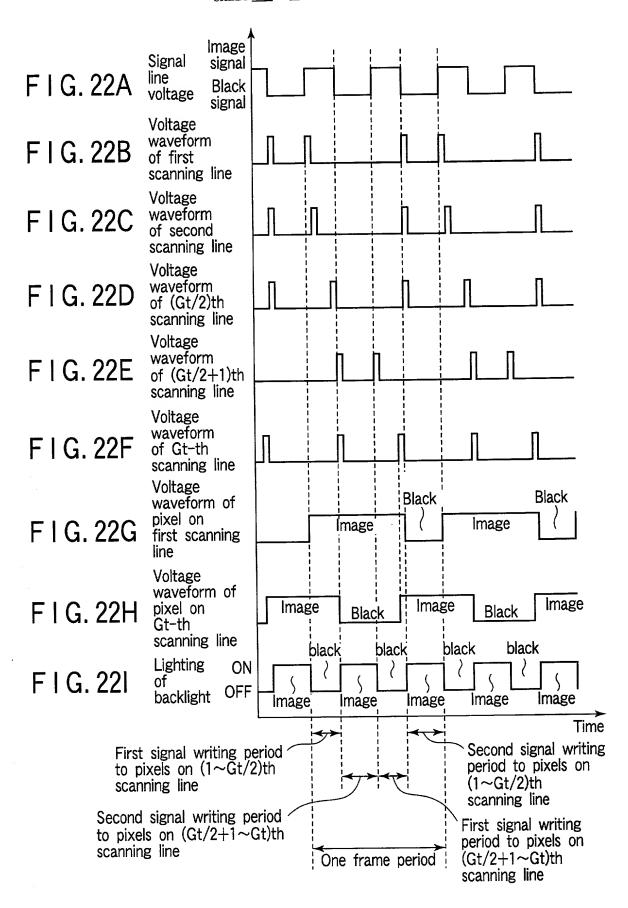
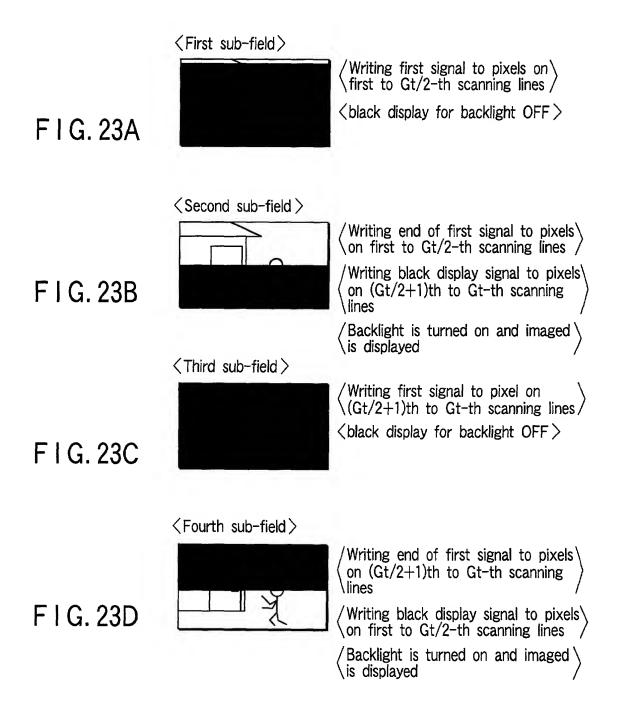


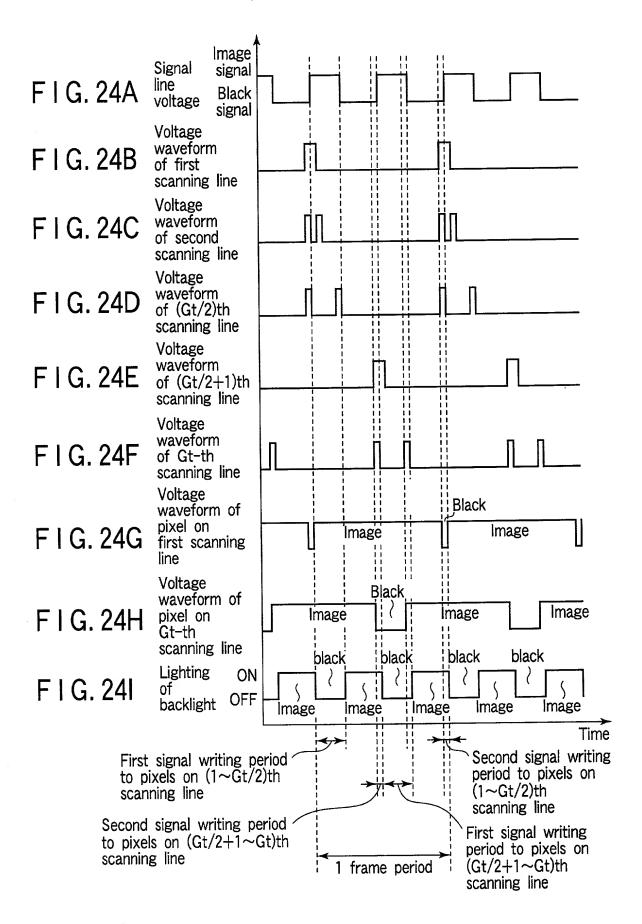
FIG. 21D

100

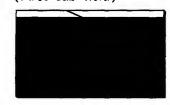
Creation time is same at an upper and lower screen. Display timing difference occurs because scanning is performed from upper to lower screen sequentially







<First sub-field>

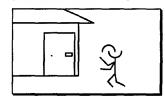


Writing first signal to pixels on first to Gt/2-th scanning lines

FIG. 25A

Second sub-field >

FIG. 25B



Writing end of first signal to pixels on first to Gt/2-th scanning lines

/Image is displayed by turning on \backlight

There is a slight time gap between image on (Gt/2+1)th to Gt-th scanning lines and image on first to Gt/2-th scanning lines because image on (Gt/2+1)th to Gt-th scanning lines is at previous frame image

Third sub-field>



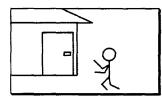
/Writing first signal to pixel on \ (Gt/2+1)th to Gt-th scanning \ lines

< Black display for backlight OFF>

FIG. 25C

Fourth sub-field>

FIG. 25D



Writing end of first signal to pixels on (Gt/2+1)th to Gt-th scanning lines

Backlight is turned on and imaged \ is displayed

There is no time gap between image on (Gt/2+1)th to Gt-th scanning lines and image on first to Gt/2-th scanning lines because image on (Gt/2+1)th to Gt-th scanning lines is at same frame image as on first to Gt/2-th scanning lines

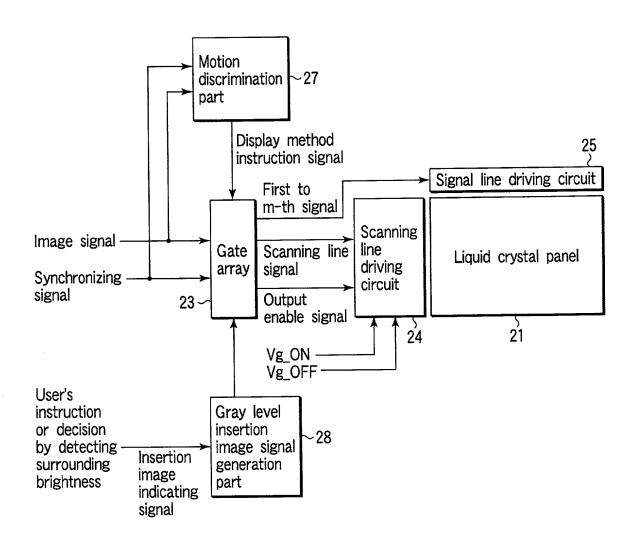
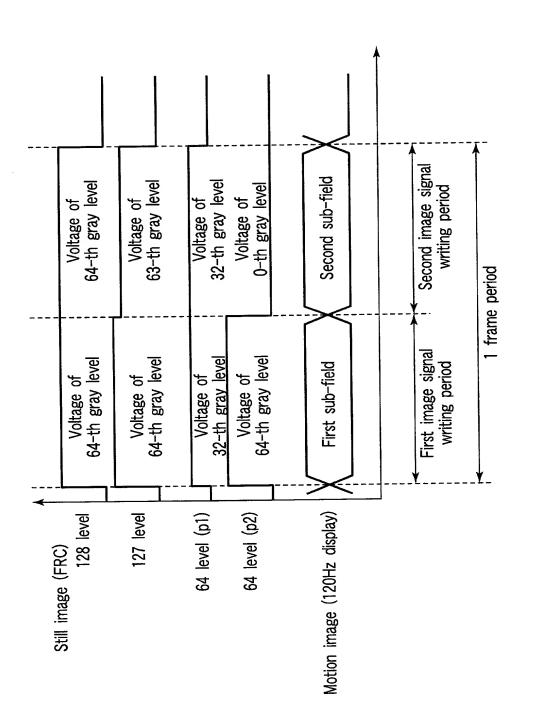


FIG. 26



F1G.27

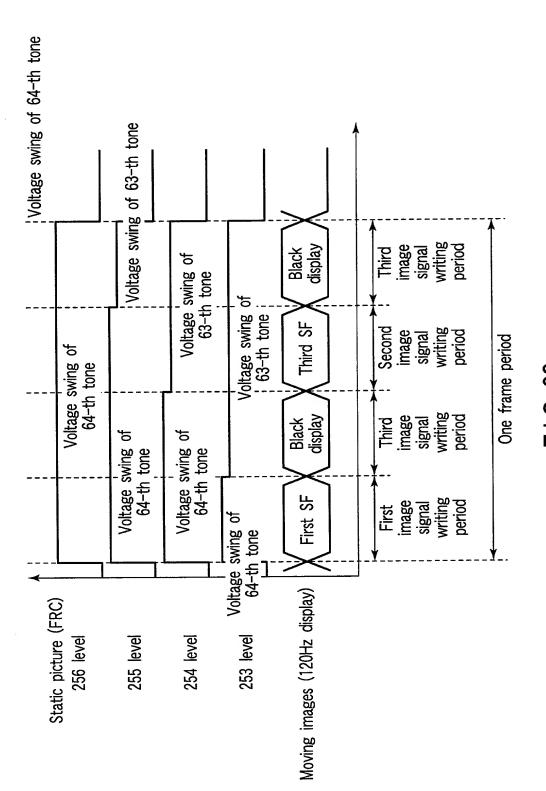


FIG. 28

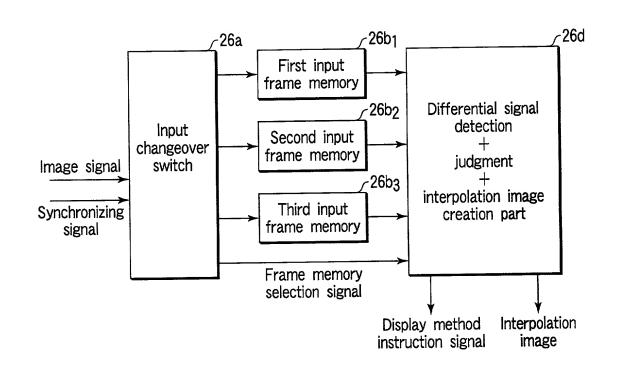
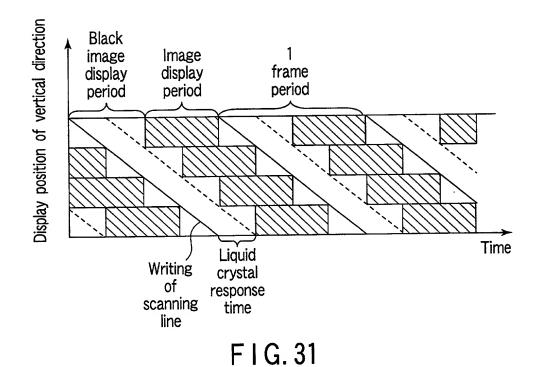
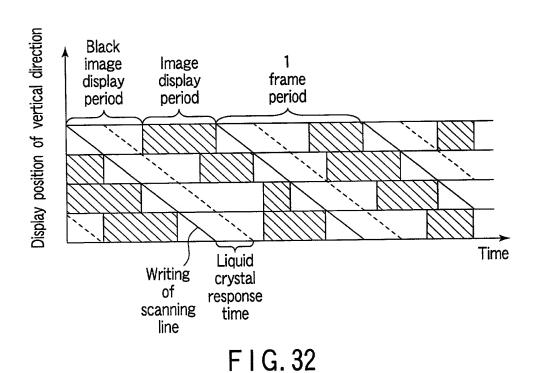


FIG. 29





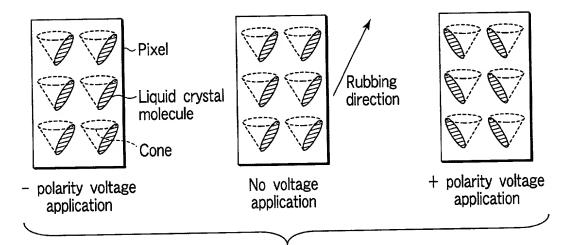


FIG. 33A

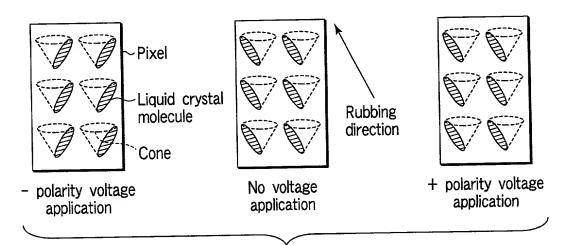
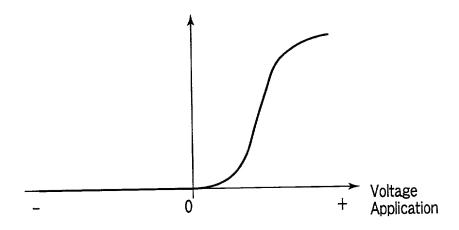
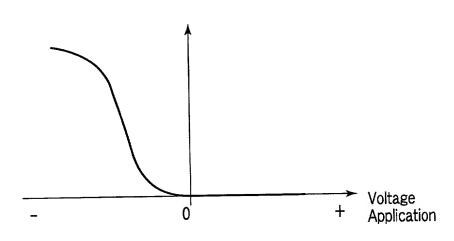


FIG. 33B



First alignment

F I G. 34A



Second alignment

FIG. 34B

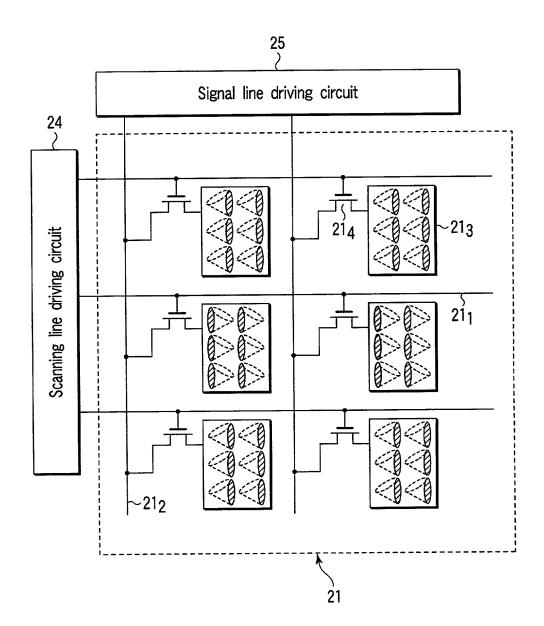


FIG. 35

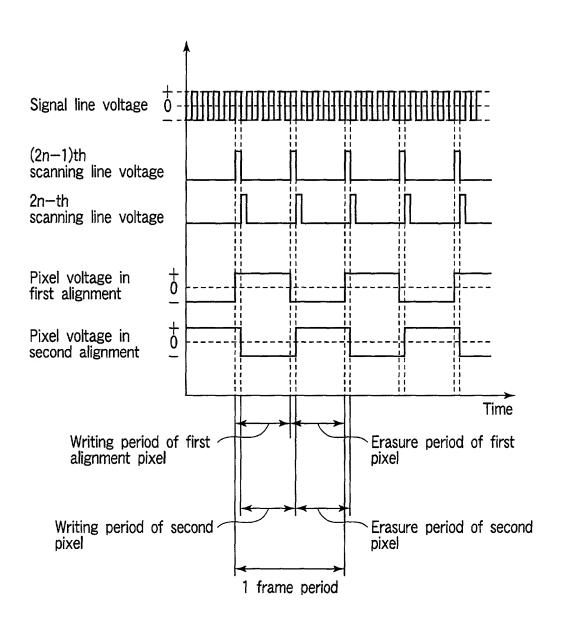


FIG. 36

Writing of First scanning line; \ \signal is + polarity First scanning line is in first and can be written in + polarity. FIG. 37A Image of previous field remains at lower side of screen Writing of Second scanning line; signal is - polarity Second scanning line is in second and can be written in - polarity FIG. 37B Time FIG. 37C Writing of (T/2-1)th scanning line; signal is + polarity End of writing to upper half FIG. 37D Writing of T/2-th scanning line;  $\setminus$ signal is - polarity First scanning line is turned on at same time. T/2-th scanning line is written in FIG. 37E - polarity, and first scanning line is erased by - polarity Writing of (T/2+1)th scanning line; signal is + polarity Second scanning line is turned on at same time. FIG. 37F (T/2+1)th scanning line is written in + polarity, and second scanning line is erased by + polarity Writing of T-th scanning line; ` \signal is - polarity (T/2+1)th scanning line is turned on at same time. FIG. 37G Upper half of screen is erased

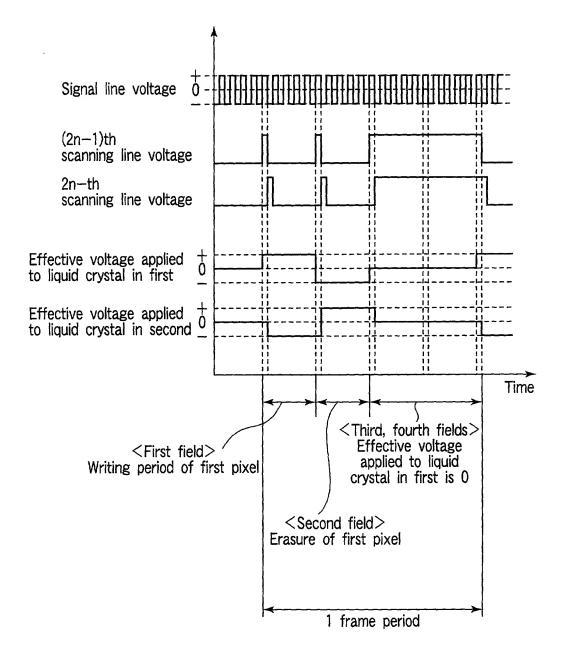


FIG. 39

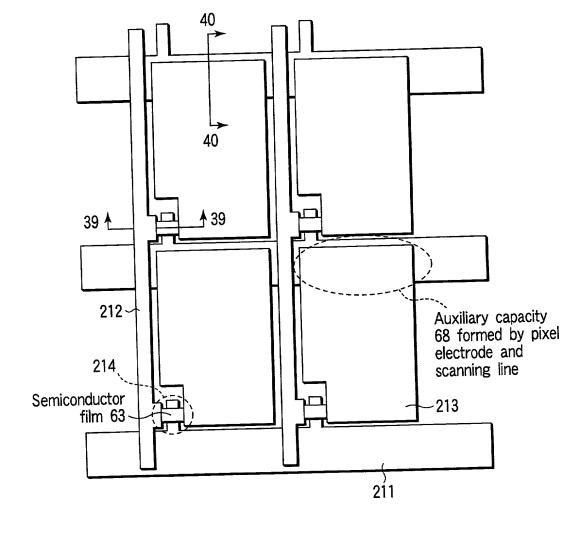
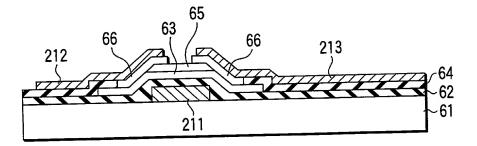


FIG. 40



F I G. 41

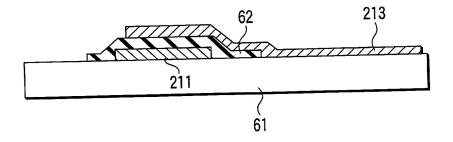


FIG. 42

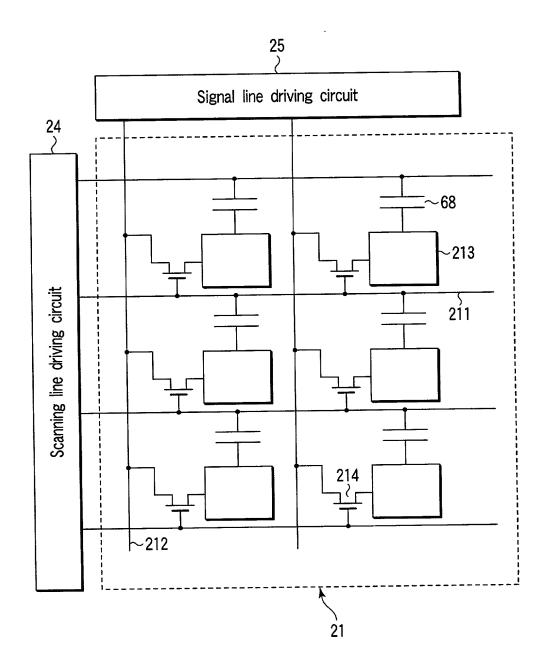


FIG. 43

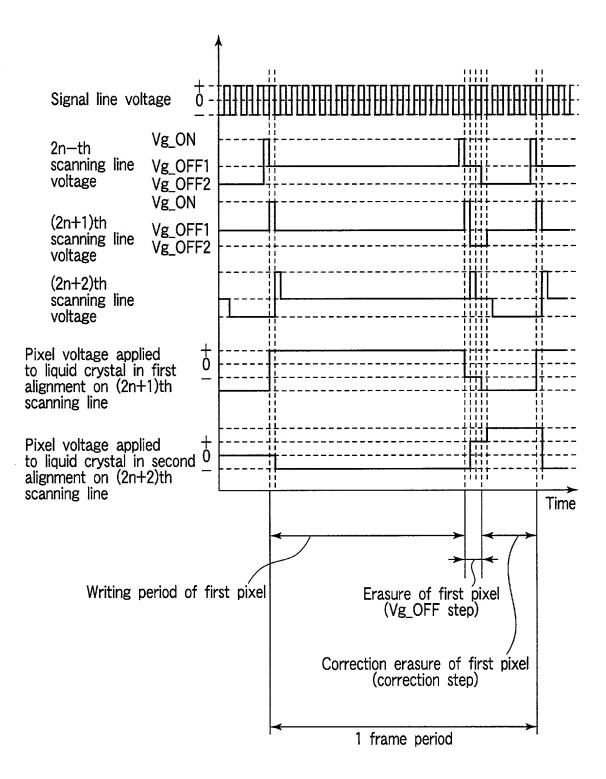


FIG. 44

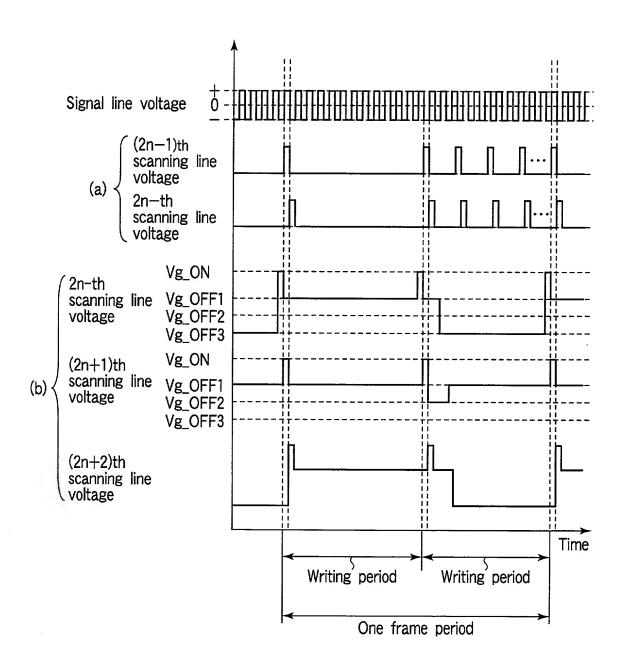


FIG. 45

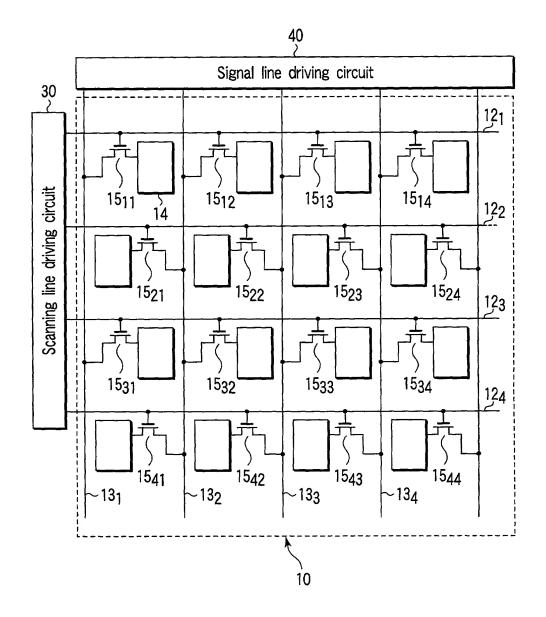


FIG. 46

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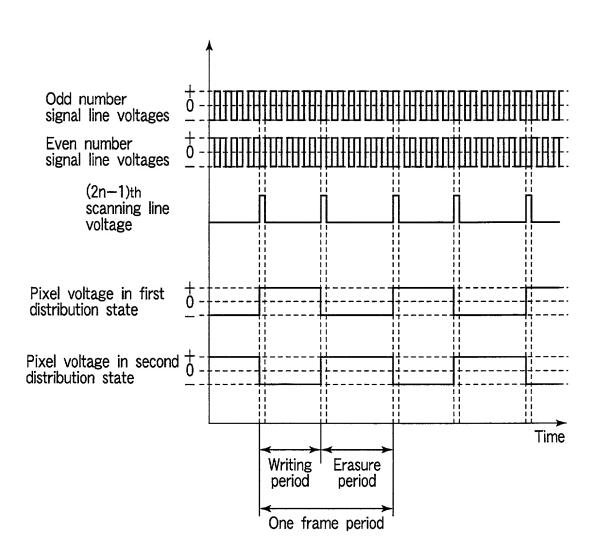


FIG. 47

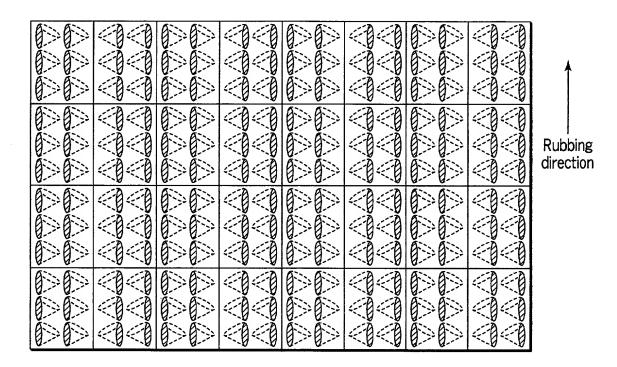


FIG. 48